## XXV SOLDERING CONTROLS

SECTION I – Procedure
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Α	1. Identify the standard the supplier uses for performing soldering.  MIL- STD 454			
Α	2a. Does a written detailed procedure exist and is it utilized for the soldering process? Identify procedure number and revision.	Yes	No	N/A □
Α	2b. Does a written detailed procedure exist for assembly of components prior to soldering? Identify procedure number and revision.			
Α	3. Are procedures readily available?			
Α	4. Are inspection procedures utilized for soldering? Identify procedure number and revision;			
Α	5a. Are inspection and manufacturing personnel trained in use of procedures?			
	5b. Is this recorded and part of employee's file'?			
Α	6. Are soldering procedures written based on contract invoked requirements or generic and company based standards?			
Α	7a. Is the procedure approved by the Customer? List Reference Approval Number, if applicable:			
	7b.Does the procedure require review/approval by the government?			

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			Sat	Unsat N/A	
Α	8.	Are procedures/work instructions adequate for control of:			
	a.	(Proper Equipment) etc.			
	b.	(Proper Materials) etc.			
Α	9.	What type of tools, mechanical strippers, chemical strippers, thermal strippers, holding devices, bending tools, clinching tools are required in the use of the procedures?,. Specify sample of tools			
Α	10	Does procedure include system for identification of inspection status on parts and documentation? (e.g. inspection stamp)			
Α		CTION II – Record Review  Identify inspection methods used to verify conformance with procedures and standards	Sat	Unsat	N/A □
Α	12.	What inspection documents exist and are they maintained to confirm inspection process was performed?	Yes	No	
		Are inspection documents properly completed and maintained?			
		b. Review and record number of samples:			
Α	13.	Is traceability maintained for material which has been soldered?			
A	14.	Is inspection data reviewed and accepted by qualified personnel?:			
			Yes	No	N/A

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Α	15. Are all tools, gages, meters, utilized for monitoring and/or inspection a part of the manufacturer's calibration program?			
Α	16. Are certifications for raw materials used in soldering process reviewed for acceptance and maintained on file for review?			
Α	17. Are adequate inspection work records maintained?			
	18. Are shop traveler and work records traced to the operator/inspection personnel?			
	SECTION III – OBSERVATION OF SOLDERING PROCESS Detailed observation of solderer(complete one section for each solderer observed). NOTE: if determined to be N/A, provide explanation.	Sat	Uns	at
Α	19. Identify process being observed. What is being soldered?			
Α	a. Solderer identification:(name, badge or clock #, shift)			
Α	<ul> <li>Basic material(s) being soldered, pc board, wire, assembly, etc.</li> </ul>			
	c. Identify soldering material, solder type, flux, class, etc.			
Α	d. Is the solderer qualified for observed soldering procedure?	Sat	Unsa	t N/A □

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Α	e.	Is the solderer familiar with details of the procedure?			
Α	f.	Procedure number:			
Α	g.	Is it readily available to the solderer and inspector?	Sat	Uns.	at
Α		re their adequate methods of segregating accepted and jected materials in use?			
Α		o solder rolls and raw materials have traceable markings on ontainers. What type of solders are used? (List)	Sat	Unsat	N/A □
Α		re soldering tools ions correct wattage for ESD or sensitive emponents.			
Α		re work areas clean from debris and separate from other leas for soldering operations.			
Α		re exhaust equipment utilized in soldering areas to provide esh air for personnel.			
Α	25 Da	o controls exist for handling and disposing of solder waste.			